

- |                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| 1. Record Nr.           | UNIORUON00077775                                                |
| Autore                  | al-ARAG, Wasini                                                 |
| Titolo                  | Sayyidat al-maqam : martiyat al-yawm al-hazin / Wasini al-A rag |
| Pubbl/distr/stampa      | Kuluniya, : al-Gamal, 1995                                      |
| Descrizione fisica      | 284 p. ; 22 cm                                                  |
| Disciplina              | 892.736                                                         |
| Soggetti                | ROMANZI ALGERINI                                                |
| Lingua di pubblicazione | Arabo                                                           |
| Formato                 | Materiale a stampa                                              |
| Livello bibliografico   | Monografia                                                      |
- 
- |                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 2. Record Nr.           | UNINA9911016073903321                                                                                                          |
| Autore                  | Jakubik Wiesaw                                                                                                                 |
| Titolo                  | Application of Surface Acoustic Waves in Gas Sensors : Theoretical Models and Advanced Sensor Structures / / by Wiesaw Jakubik |
| Pubbl/distr/stampa      | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025                                                        |
| ISBN                    | 9783031899713<br>9783031899706                                                                                                 |
| Edizione                | [1st ed. 2025.]                                                                                                                |
| Descrizione fisica      | 1 online resource (0 pages)                                                                                                    |
| Collana                 | Springer Series in Surface Sciences, , 2198-4743 ; ; 69                                                                        |
| Disciplina              | 620.44                                                                                                                         |
| Soggetti                | Surfaces (Technology)<br>Thin films<br>Acoustics<br>Surfaces, Interfaces and Thin Film                                         |
| Lingua di pubblicazione | Inglese                                                                                                                        |
| Formato                 | Materiale a stampa                                                                                                             |
| Livello bibliografico   | Monografia                                                                                                                     |
| Nota di contenuto       | Chapter1. Introduction -- Chapter2. SAW gas sensors -- chapter3. Theoretical models of SAW sensors operation -- Chapter4.      |

Methodology of SAW gas sensor investigations -- Chapter5.  
Investigations of selected SAW-based sensor structures -- chapter6.  
Summary.

---

Sommario/riassunto

This textbook covers key aspects of applying surface acoustic waves (SAW) in gas sensors, presenting fundamental operating principles, theoretical models, research methodologies, and sensor structures in a clear and accessible manner. It discusses single, bilayer, and multilayer sensor structures, along with a detailed theoretical description of the acoustoelectrical effect in bilayer sensors. Special attention is given to semiconductor-metal bilayer structures, such as phthalocyanine-palladium and tungsten oxide-palladium, due to their strong potential for practical applications in SAW hydrogen sensors. The book also explores future applications and research directions, including advancements in light-activated photoconductive polymer structures.

---